



TRAINING PROTOCOL FOR HEALTHCARE WORKERS IN COVID-19 ISOLATION/TREATMENT CENTRES

Federal Ministry of Health
Department of Hospital Services

April 12020

Version 1

© Department of Hospital Services

Federal Ministry of Health
Department of Hospital Services
6th Floor, Federal Secretariat
Phase II
Abuja, Nigeria
Phone: +2349022004906
email: directordhs5@gmail.com
Online: <https://www.health.gov.ng/>

**TRAINING PROTOCOL FOR HEALTHCARE
WORKERS IN COVID-19
ISOLATION/TREATMENT CENTRES**

BY



**COVID -19 ISOLATION/TREATMENT CENTRE
ACCREDITATION TEAM (ITCAT)**

**Department of Hospital Services
Federal Ministry of Health**

APRIL 1, 2020

CONTENT

ACKNOWLEDGMENT	2
ABBREVIATIONS.....	3
INTRODUCTION.....	4
MODULE 1. Overview of COVID-19 outbreak	
Session 1. Introduction to COVID-19.....	9
Session 2. Current situation of COVID-19 outbreak in Nigeria.....	9
MODULE 2. Case Identification, screening and triage	
Session 1. Case definition.....	10
Session 2. Isolation and notification.....	10
Session 3. Design and workflow of isolation facility.....	10
MODULE 3. Infection prevention and control	
Session 1. Overview of infection prevention and control.....	11
Session 2. Hand hygiene.....	11
Session 3. Use of personal protective equipment.....	11
Session 4. Disinfection and environmental cleaning	11
Session 5. Safe management of linens.....	12
Session 6. Waste management.....	12
MODULE 4. Case management	
Session 1. Management of suspected and confirmed cases.....	12
Session 2. Specimen collection, packaging and transportation.....	12
Session 3. Psychosocial support for COVID-19 patients and Healthcare staff.....	13
Session 4. Safe transfer of patients.....	13
Session 5. Management of dead bodies.....	13.
References.....	16
Appendices.....	17
Members of ITCAT/Contributors	



ACKNOWLEDGEMENT

We wish to appreciate the contributions of the Nigeria Centre for Disease Control and the Federal Ministry of Health for their support in drafting this protocol. We also wish to appreciate the Director Hospital Services (FMOH) Dr Adebimpe Adebisi and the Honourable Minister for Health Dr Osagie Ehanire for the confidence reposed in us to carry out this task.

LIST OF ABBREVIATIONS

COVID-19 - Corona Virus Disease 2019

ITCAT - Isolation/Treatment Centres Accreditation Team

IPC -Infection Prevention and Control

NCDC - Nigeria Centre for Disease Control

OPD - Out-patient Patient Department

PCR - Polymerase Chain Reaction

SARS-COV-2 - Severe Acute Respiratory Syndrome Coronavirus 2.

SOP - Standard Operating Procedure

WHO - World Health Organization

How to Use the Protocol

Manual Contents:

- In spite of the manual providing various issues all serving the same overall goal, yet, each session is dealing with a component which can be provided as a separate entity in the intended training
- To enrich your basic knowledge and training skills, it is advisable to review the selected subject from the related PowerPoint slides of the manual, before conducting the training session
- To attain supreme advantage of this manual, it is beneficial to review the titles of other sections before concentrating on the targeted one, as it is expected that there will be some extent of interaction between the different subjects
- After deciding on a suitable approach, select the training site with all the necessary equipment and stationary, required for the session.
- It is advisable not to revise any of the contents of the manual in the presence of the participants.
- It is highly recommended to ensure that you use the participatory approach by ensuring the participants are active members in the discussion, not just a passive recipient.
- It is important to respect the views of participants, even if it contradicts yours.
- It is recommended that you comply as much as possible with the pre-set time frame of the training session.
- In the closing session, make sure to summarize the main points of the discussion and thank the participants for their active participation.

How to use the manual

1. Introduction

COVID -19 is an acute respiratory infection caused by the novel Corona virus named SARS CoV 2 virus. Since the discovery of the first case in Nigeria on the 28th February, 2020, the number of cases continue to rise by the day. As at the 14th of April 2020, 373 confirmed cases across 20 states have been reported with 11 deaths.

Human -to- human transmission of COVID-19 occurs through the inhalation of droplets from the nose or mouth of an infected person during coughing, sneezing or talking. These droplets land on objects and surfaces and can also be spread to other persons when they touch these contaminated objects or surfaces, and then touch their eyes, nose or mouth. In healthcare settings, risk of infection is high. ⁴

There is currently no specific drug and vaccine for the treatment and prevention of COVID-19. Intensive research and development of products for the control of this disease are underway, and strategies and control measure may be modified from time to time. In order to guide the training of healthcare workers and to equip them with available basic knowledge and practical skills to safely manage cases of COVID-19, this document was developed by the Isolation/Treatment Centre Accreditation Team set up by the Honorable Minister of Health, Dr Osagie Ehanire. It is an urgent and collective response by a group of experts to build the capacity and confidence of the health workers in carrying out their duty of providing care for suspected and confirmed cases of COVID-19.

This training protocol targets a broad spectrum of health workers, including frontline professionals (doctors, nurses, laboratorians, pharmacists) and support staff (hygienists, kitchen staff, laundry staff, ambulance drivers and security personnel).



2. Protocol Objectives

1. To provide guidance and resource materials for the training of healthcare workers on COVID-19 case management
2. To build capacity of healthcare workers on appropriate infection prevention and control (IPC) measures for COVID-19 in line with their duties
3. To build a critical mass of well-trained healthcare workers and support staff ready for deployment to manage cases of COVID-19 in Nigeria.
4. To create opportunities for mentorship on case management and IPC for COVID-19

3. Target audience for this protocol

This protocol is intended for use by trainers in COVID -19 case management and Infection and prevention who will use the materials to train frontline healthcare workers on medical management of COVID-19.

4. Methodology

Delivery method: The course is designed to be delivered in lecture style format with the use of Power Point presentations, with practical demonstrations, hands-on sessions and videos, case scenarios. Simulation exercises should be done. Training materials should be provided for participants.

Trainees: Trainees should include IPC focal persons, doctors, nurses, laboratorians, pharmacists, support staff (hygienists, kitchen staff, laundry staff, ambulance drivers and security personnel)

Training venue: Selection of the training venue is crucial for the success of the training. The following criteria are advised:

- The site should be within geographical reach of participants

- There should be good aeration.
- Illumination should be adequate.
- The venue should be spacious enough to allow for social distancing and free movement of participants
- Chairs and tables should be provided to suit the approaches planned for the training eg working groups, role play, games

Duration: Training should take at least 2 days

5. Course content

The course is divided into 5 modules with each module sub-divided into sessions such that it can be delivered to any one of these target audiences or to a combination of them.

Module 1 -General

Module 2 -Identification, screening and triaging of COVID-19 patients

Module 3- Infection prevention and control (IPC)

Module 4 - Case management

Module 1- Overview of COVID-19

Module duration: 1 hour.

Topics covered

- I. Introduction to COVID-19 outbreak
- II. COVID-19 current situation in Nigeria

Module Learning Objectives

By the end of this module, participants will:

- Be conversant with the origin and timeline of COVID-19 pandemic
- Understand the current situation in Nigeria
- Be familiar with National (and state) response efforts Understand the epidemiology of COVID 19

Teaching Methods

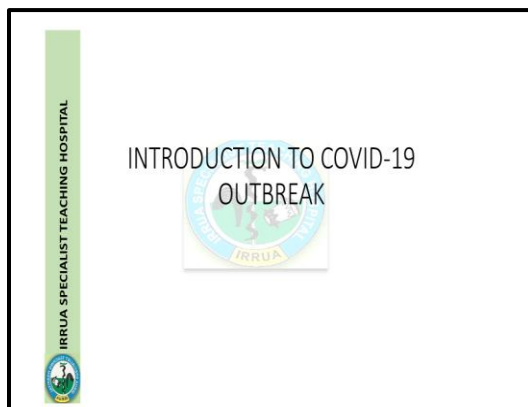
- Power point presentation, Discussions, Question and answer sessions.

Materials Needed

- Projector

Public address system

- Writing materials



Nigeria Centre for Disease Control
Protecting the health of Nigerians

COVID-19
Current Situation in Nigeria

Module 2- Identification, Screening and Triaging of COVID-19 patients

Module duration: 1hour

Topics covered

- I. Screening, Isolation and Notification
- II. Design of isolation facility and workflow

Module Learning Objectives

By the end of this module, participants will be able to:

- Define a suspected case of COVID-19
- Define probable and confirm case of COVID-19
- Understand who a contact is
- Explain meaning of isolation and quarantine
- Understand screening and triage of COVID-19 patients.
- Design a screening area and understand the workflow isolation and treatment centre
- List materials required in setting up of isolation area.

Teaching Methods

Power point presentation, discussions, Group work

Materials Needed

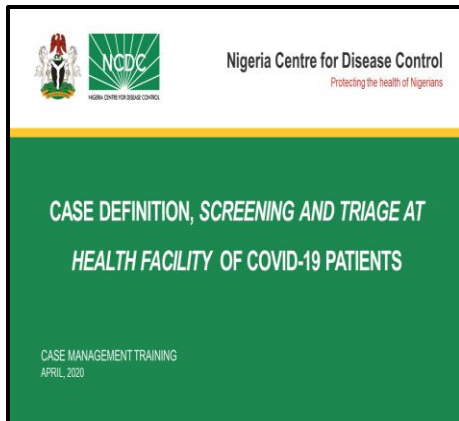
Projector

Public address system

Writing materials

Cardboard paper

Markers



Module 3- Infection prevention and control

Module duration: 4 hours

Topics covered

Overview of IPC-Standard and transmission-based precaution

Use of personal protective equipment (PPE) including practicals

Hand hygiene theory and practice

Equipment disinfection and environmental cleaning

Safe management of linen

Waste management.

Module Learning Objectives

By the end of this module, participants will be able to:

- Understand the chain of transmission
- Understand standard and additional precautions
- Understand, explain and demonstrate hand hygiene
- List the various types of PPE and their uses.
- Demonstrate the preparations of the different concentrations of chlorine solution and uses.
- Understand and demonstrate environmental cleaning in COVID-19 facilities.
- Explain how to collect, transport, disinfect and store linens

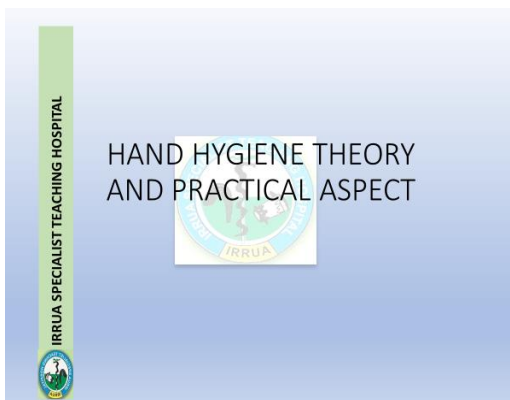
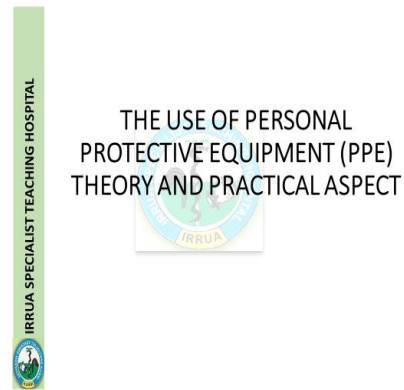
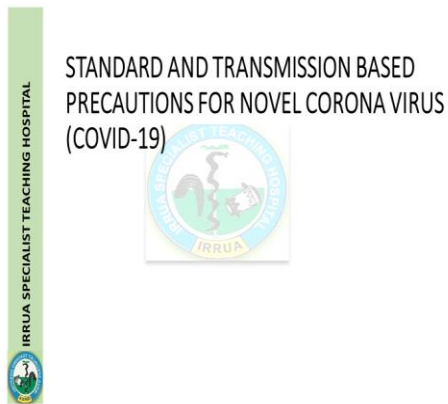
- Understand waste management as it applies to COVID-19 facilities

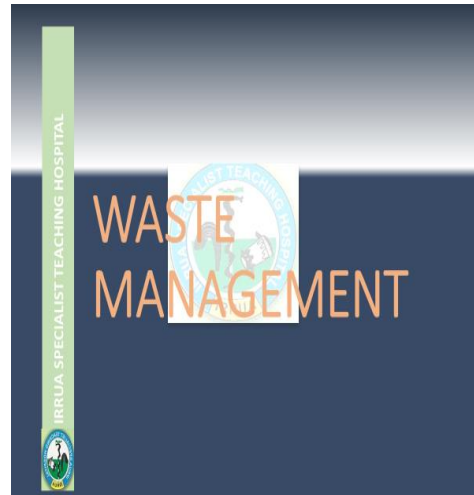
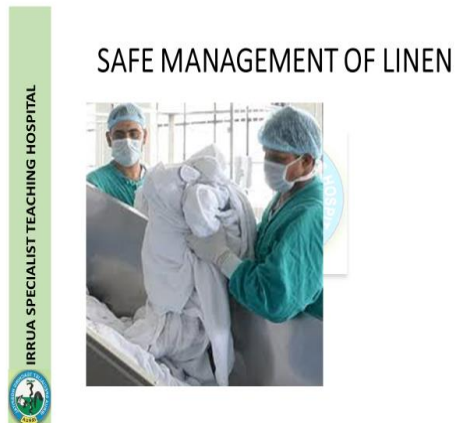
Teaching Methods

Power point presentations, demonstrations, practical sessions, video

Materials Needed

- Projector
- Public address system
- Writing materials
- Flip charts and markers
- Hand hygiene commodities
- Coloured bin liners and bins
- Bleach
- Receptacles for mixing bleach
- Full PPE





Module 4 - Case management

Module duration: 2 hours 15min

Module Learning Objectives

By the end of this module, participants will be able to:

- Explain and demonstrate the types and procedures for collection of specimen in COVID-19
- Explain triple packaging of samples and safe transportation to laboratory
- Explain the various treatment modalities and drugs for mild and severe cases of COVID-19.
- Understand the psychological issues in COVID-19 patients and healthcare workers
- Apply psychological support for patients and healthcare workers
- Understand and describe the safe transfer of suspected and confirmed COVID-19 patients.
- Understand the safe handling of suspected or confirmed COVID-19 dead bodies

Teaching Methods

- Power point presentation, demonstrations, Discussions, Questions and answers, video clips

Materials Needed

- Projector
- Writing materials
- Public address systems
- Specimen collection materials

IRRUA SPECIALIST TEACHING HOSPITAL

GENERAL OVERVIEW AND CASE MANAGEMENT OF COVID-19

DR MOJEED OLAITAN RAFIU *FMCP (NEPHROLOGY)*
CONSULTANT PHYSICIAN AND NEPHROLOGIST.
HEAD OF INTERNAL MEDICINE DEPARTMENT
IRRUA SPECIALIST TEACHING HOSPITAL, EDO STATE.



Nigeria Centre for Disease Control
Protecting the health of Nigerians

CLINICAL DIAGNOSIS AND MANAGEMENT OF COVID-19 PATIENTS

CASE MANAGEMENT TRAINING
APRIL, 2020

IRRUA SPECIALIST TEACHING HOSPITAL

SPECIMEN COLLECTION, PACKAGING AND TRANSPORTATION FOR COVID 19



IRRUA SPECIALIST TEACHING HOSPITAL


Nigeria Centre for Disease Control
Protecting the health of Nigerians

PSYCHOSOCIAL SUPPORT FOR COVID-19 PATIENTS

CASE MANAGEMENT TRAINING
APRIL, 2020

IRRUA SPECIALIST TEACHING HOSPITAL

Psychosocial Aspect of Covid-19



Nigeria Centre for Disease Control
Protecting the health of Nigerians

IRRUA SPECIALIST TEACHING HOSPITAL

HANDLING OF DEAD BODIES IN THE CONTEXT OF COVID 19



IRRUA SPECIALIST TEACHING HOSPITAL

SAFE TRANSFER OF PATIENT

CASE MANAGEMENT TRAINING
APRIL 2020

Sample format for a Training Schedule

Session	Topic	Duration
Registration of participants		30min
Module 1- Overview of COVID-19	I. Introduction to COVID-19 outbreak	30 min
	II. Situation of COVID-19 outbreak in Nigeria.	20 min
	III. Tea Break	
Module 2- Identification, screening and triaging of COVID-19 patients	I. Case definition	25 min
	II. Screening, Isolation and Notification	25 min
	III. Design of isolation facility and workflow	25 min
	IV.	
Lunch BREAK		30 min
Module 3- Infection prevention and control	I. Overview of IPC-Standard and transmission-based precautions	30 min
	II. Use of personal protective equipment (PPE) (Practical Demonstration)	45 min
	III. Hand hygiene	25 min
	IV. Disinfection and environmental cleaning	25 min

	V. Safe management of linen	25 min
	VI. Waste management.	25 mi
	VII.	
	IPC Practical	
CLOSING		
DAY 2		
Module 4-Case management	I. Clinical management of suspected and confirmed cases of COVID-19	30 min
	II. Specimen collection, packaging and transportation.	25 min
	III. Psychosocial support for COVID-19 patients and healthcare staff	30 min
	IV. Safe transfer of patient and handling of dead bodies.	25 min
Module 5- Hands-on	Simulation exercises, practical and case scenarios	3 hrs.
CLOSING		

REFERENCES

1. European Centre for Disease Prevention and Control. Checklist for hospitals preparing for the reception and care of coronavirus 2019 (COVID-19) patients. ECDC: Stockholm; 2020.
2. National Centre for Disease Control India. COVID -19 outbreak. Guidelines for setting up isolation facility/Ward. 2020
3. Nigeria Centre for Disease Control. Infection Prevention and Control recommendations during Health Care when COVID-19 infection is suspected. 2020
4. World Health Organization. Country & Technical Guidance - Coronavirus disease (COVID-19), accessed 4th April 2020, <https://www.who.int/emergencies/diseases/novelcoronavirus-2019/technical-guidance>
5. World Health Organization 2020, Infection prevention and control; implementation tools and resources, accessed 4th April, 2020, <https://www.who.int/infection-prevention/tools/en/>
6. World Health Organization 2020, Mental Health and Psychosocial Considerations During COVID19 Outbreak, accessed 6th April, 2020, <https://www.who.int/docs/defaultsource/coronaviruse/mental-healthconsiderations.pdf>

APPENDIX 2

MEMBERS OF THE COVID-19 ISOLATION/TREATMENT CENTRE ACCREDITATION TEAM

Prof Akin Abayomi	Commissioner of Health, Lagos state	Chairman
Prof Sylvanus Okogbenin	CMD, Irrua Specialist Teaching Hospital	Member
Dr Mojeed Olaitan Rafiu	Consultant Physician ISTH	Member
Dr Ephraim Ogbaini-Emovon	Consultant Clinical Virologist ISTH	Member
Dr Ekaete Tobin	Consultant Public Health Physician ISTH	Member
Dr Yemihan Ogbetere	Senior Registrar, ISTH	Member
Matron Martha Okonofua	Chief Nursing Officer, ISTH	Member
Mrs Elizabeth Enigbe	Senior Nursing Officer, ISTH	Member
Dr John Maiye	NFELTP/ NCDC	Member

Others from the Ministry of Health



This QR code allows you access to all training materials. To use it, if you do not have a QR code reader, then download a QR Code reader from play store or app store .Launch the reader and then scan the QR code above.